

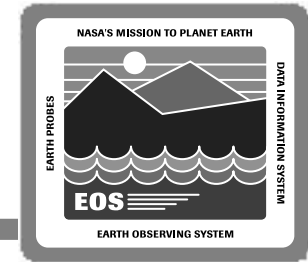
GUI Workshop I - Desktop

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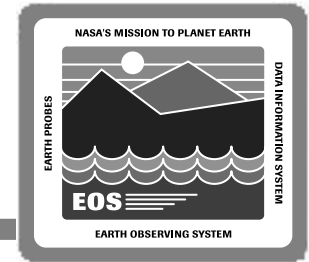
2nd Feb. 1996

Overview of the Desktop



- A framework to manage ECS applications
- Each file in a user's account is represented as an icon on the Desktop. These are also called Desktop Objects. There are three types of Desktop Objects
 - Applications (For ex. ECS Applications like Advertising Service etc.) .
 - Documents (For ex. Image Files, Text files etc..)
 - Containers (For ex. Directories)

Overview of the Desktop



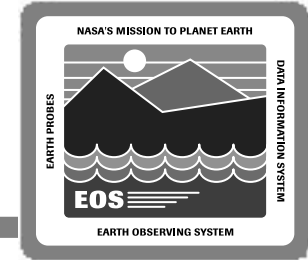
- Each desktop object will have
 - a name
 - an icon
 - a set of Desktop actions.
 - a command to execute

For applications and documents these actions are stored in actions file in user's home directory.

- Default icon for
 - Applications is
 - Documents is
 - Containers is



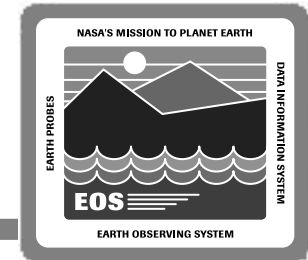
Overview of the Desktop



- Menubar choices are used to activate some of the features of Desktop. These options can be invoked either by clicking on them using Button-1 or using Mnemonics. For ex.
 - To invoke file pulldown menu, type <ALT>-F
- Each menubar option will have a set of features arranged in its pulldown menu. Some of these features will be associated with Desktop objects, i.e. User may have to click on a desktop object to activate its related features.
- The Desktop Menubar is arranged as per CDE (Common Desktop Environment) FileManager's Menubar as shown below :

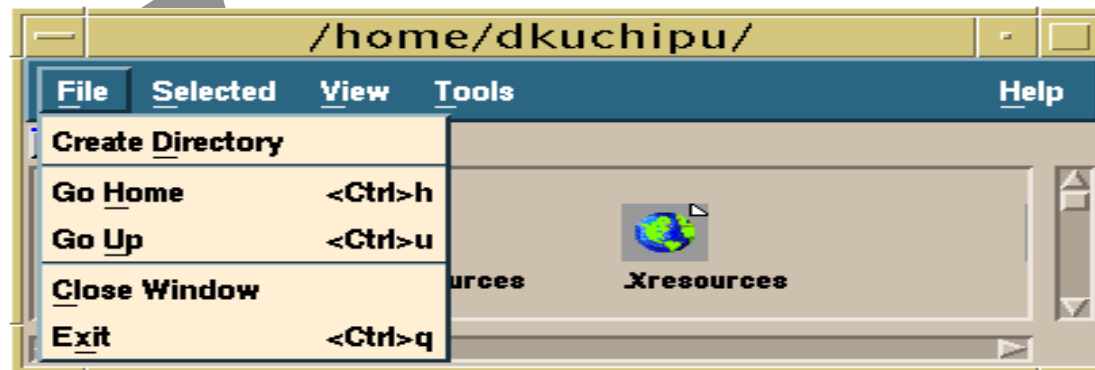


File Pulldown Menu

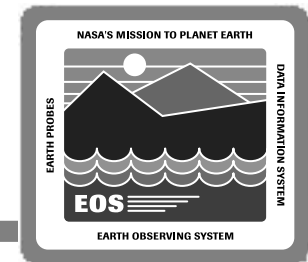


- File pulldown menu provides basic directory navigation and window control

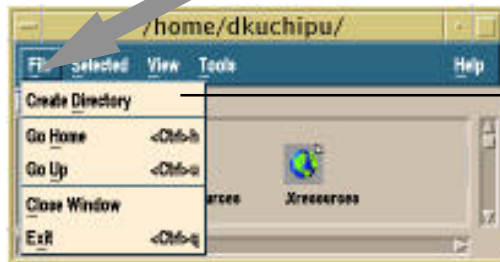
Click on File using
Button-1 or press <
ALT>-F on the
keyboard to post the
file menu.



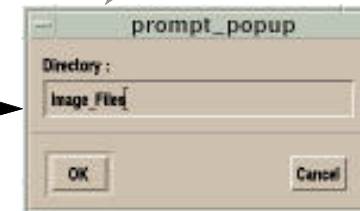
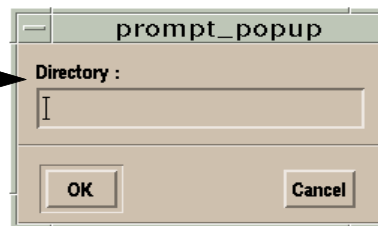
Creating a Directory



Click on "File"
pulldown menu
and select "Create
Directory"



Enter the name of the
directory to
be created.

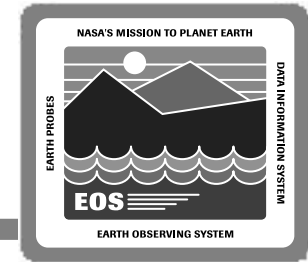


Directories are useful for
arranging similar / functionally
related files. The user has
complete control of directory
creation and contents.

Click on OK
to create
directory

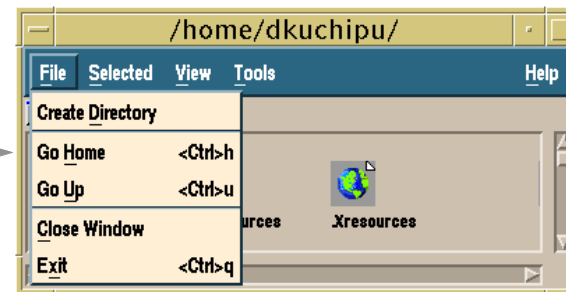
Click on
Cancel, to
cancel the
operation

User's Home Directory

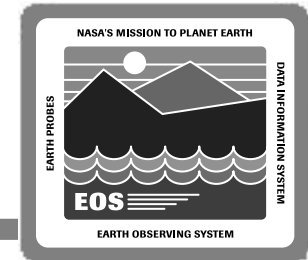


- User's Home Directory is the highest level directory in their account. All sub-directories branch out from here.

Click on "File"
pulldown menu,
and select "Go
Home"



Traversing Directories

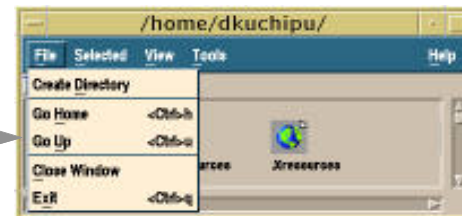


- User can move from one directory to another by clicking on a directory icon.
- User can go one level up by using either of the 3 methods:

1. Click on
“..(go up)”
icon

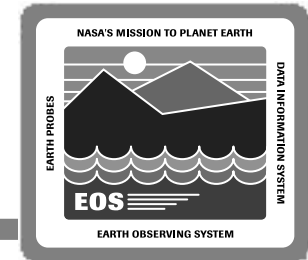


2. Click on “File”
pulldown menu,
and select “Go Up”

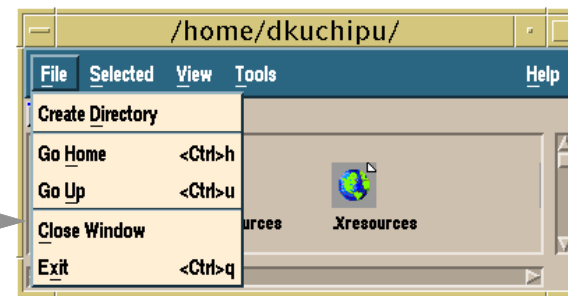


3. <CTRL>-U on keyboard

Closing a Desktop Window

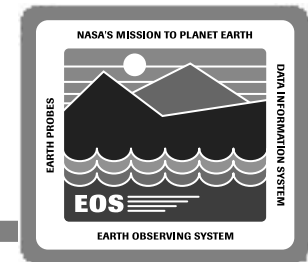


Click on “File”
pulldown menu,
and select “Close
Window”

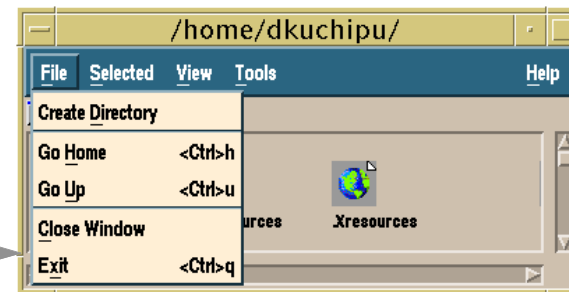


- This dismisses the active window from screen
- This does not effect the user’s files in anyway.
- Closing last desktop window exits the system and returns to system prompt.

Exit the system

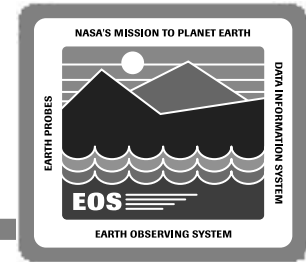


Click on “File”
pulldown menu,
and select “Exit ”



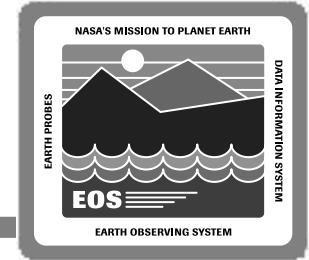
- To exit the system and return to the system prompt.
- Exiting the system empties the trash directory.
- User will be prompted for confirmation before Exit operation is performed.

Selecting Multiple desktop objects



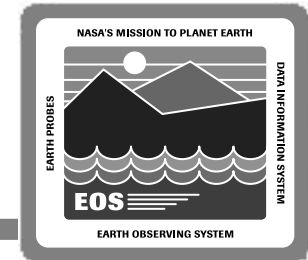
- **Selection of multiple files :**
 - **Depress button-1 and drag the mouse without releasing the button.**
 - **Rubber-banding rectangle is formed.**
 - **User can resize the rectangle to include his /her selection of multiple files.**
 - **Release the button-1.**
 - **Each icon within the selection rectangle will have a colored “border”.**
- **Operations like delete, drag can be performed on this selection following the same procedure as for single selected files.**

Drag and Drop



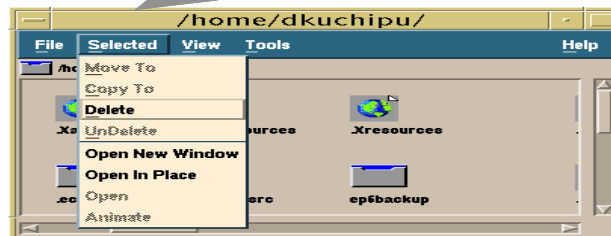
- Drag and Drop is one of the most important features of Desktop.
 - Desktop objects can be moved from one directory to another by :
 - dropping it on a directory icon
 - dropping it on another desktop window.
 - When a image file is dropped on EOSView, EOSView application is opened to perform default action of the image file (either OPEN or ANIMATE)
- Drag a desktop object with button-2 and drop it on a directory icon, another desktop window or EOSView icon depending on requirement.
- Users can drag a single icon or multiple icons.

Selected Pulldown Menu

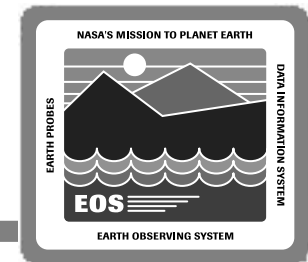


- Selected Pulldown menu consists of options which are specific to Desktop Objects.
- This menu consists of two sets of options separated by a separator.
 - First set (the options above the separator) is general to all the Desktop Objects i.e., all icons.
 - Second set (the options below the separator) are also called Actions.
 - In order to activate options in this menu, user should click on a Desktop Object (i.e., an icon) before selecting the pulldown menu. Details about actions will be discussed later.

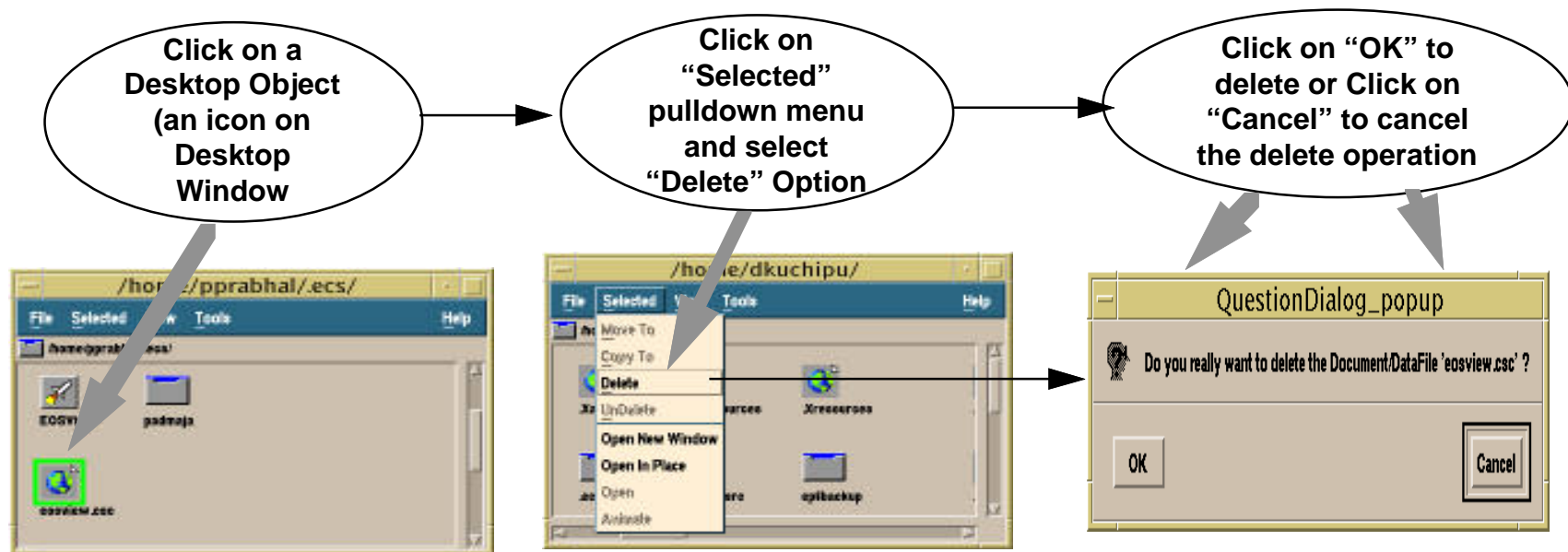
Click on "Selected" using Button-1 or press <ALT>-S on the keyboard to post "selected" menu



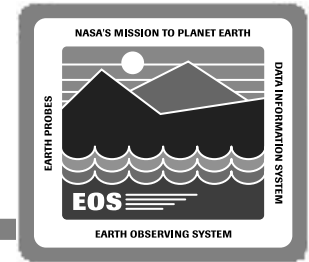
Deletion of Single Desktop Object



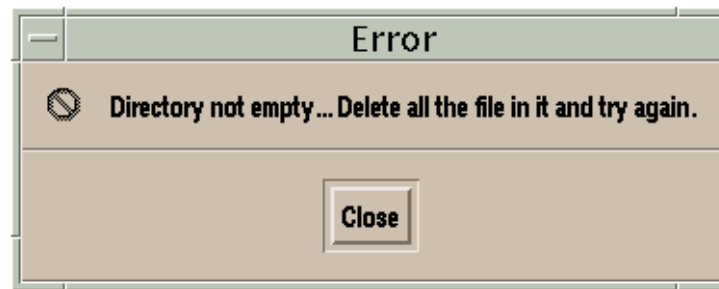
- User can delete any unnecessary file(s).
- The deleted files will be removed from desktop window and will be moved to trash directory.
- User can delete single/multiple Desktop Objects.
- User will be prompted for confirmation before delete operation is performed.
- In order to delete a single file , use the following method:



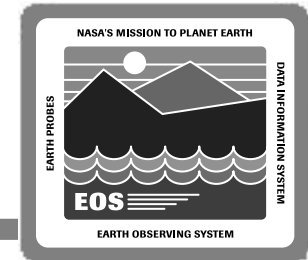
Deletion of Single Desktop Object



- Empty container objects (directories) can be deleted.
- Deleting non-empty container objects results in the following error:
 - For ex. Delete a directory named “Junk”.
 - Use the method mentioned in the previous slide to delete the directory “junk”, Click on “OK” to delete. You will get the following error message:

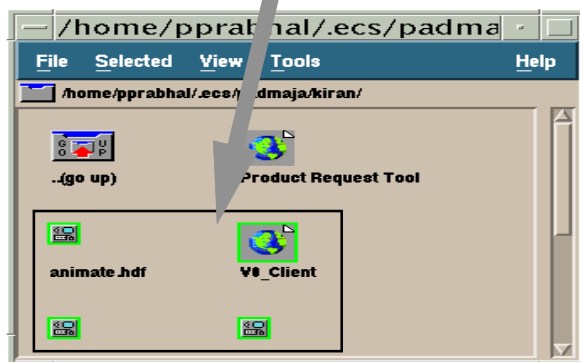


Deletion of Multiple Desktop Objects

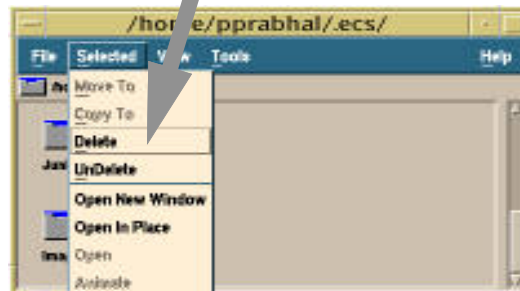


- If the user desires to delete multiple desktop objects, the following method should be used.
- If the selection contains non-empty container objects (i.e., directories), the user will get an error message as explained in the previous example, and remaining objects will be deleted.

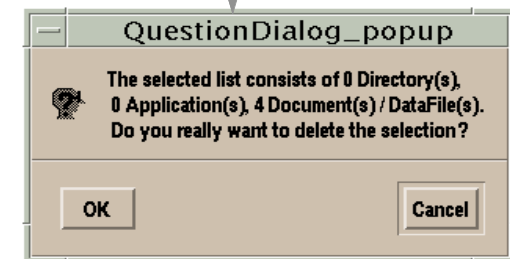
Drag button-1 of mouse. The files in the rectangle will be highlighted.



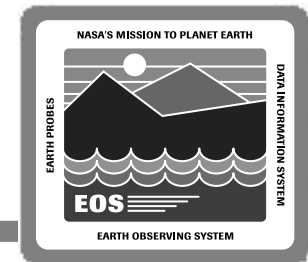
Click on "Selected" pulldown menu and select "Delete" option



A dialog box with information on number of selected objects pops-up. Click on "OK" to delete or "Cancel" to cancel the delete operation.

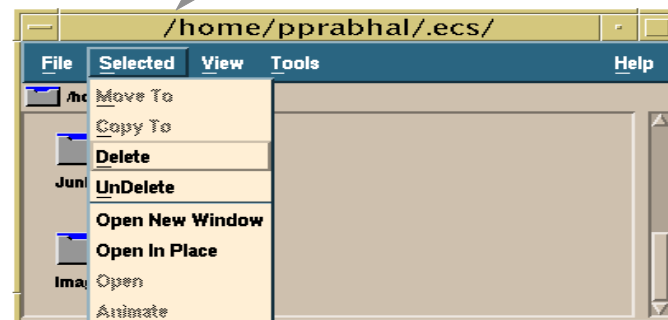


UnDelete Desktop Objects

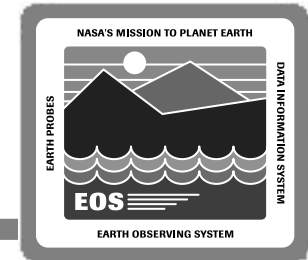


- The Desktop Objects can be undeleted by using the UnDelete option.
- Single & Multiple desktop objects can be undeleted.
- This option will be available only when some objects have been deleted.
- Single level of UnDelete is supported.

Click on “Selected”
pulldown menu, select
“UnDelete”

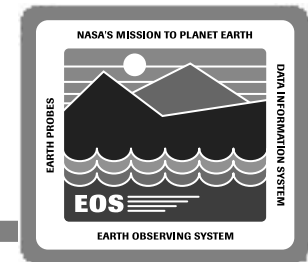


Desktop Actions



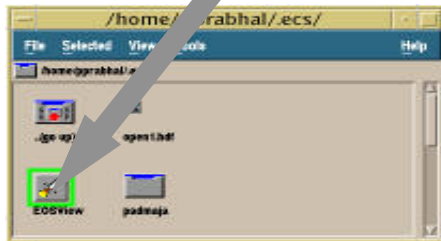
- **Each Desktop Object will have one or more related actions. Default actions are in bold below:**
 - Application Object (Applications like Advertising Service etc.) : **Open**
 - Document Object (Documents/ data files like Image files) : **Open**,
Animate
 - Container Object (Directories) : **Open In Place** ,
Open New Window
- **Desktop Actions are the options which are present below the separator in the “Selected” pulldown menu.**
- **On Selecting an Desktop object (i.e. icon), action(s) associated with it will be activated.**
- **To execute an action, click on the desired option.**
- **Default action can be executed on double-clicking on the Desktop Object itself.**

Desktop Actions : Examples

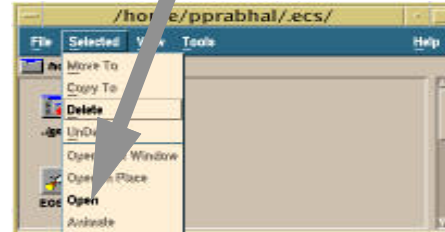


To open/execute an application

Click on a application icon.

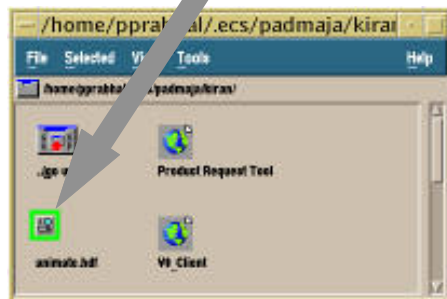


Click on "Selected" pulldown menu, user will find that one action is activated. Select "Open "

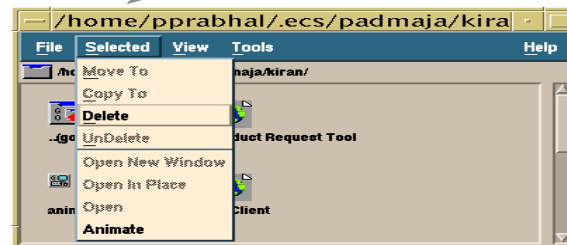


To open a document

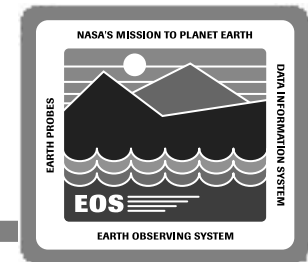
Click on a document i.e., a image file icon.



Click on "Selected" pulldown menu, user will find that one action is activated. Select "Animate"



Desktop Actions : Examples

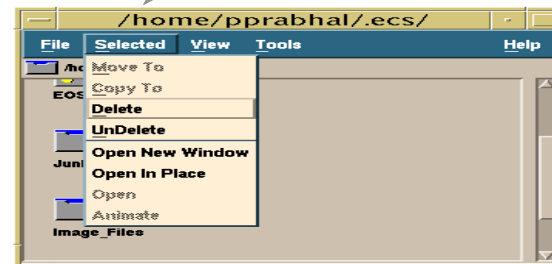


To open a directory into a new desktop window

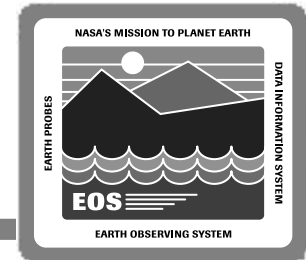
Click on a directory icon.



Click on "Selected" pulldown menu, user will find that two actions are selectable. Select "Open New Window"

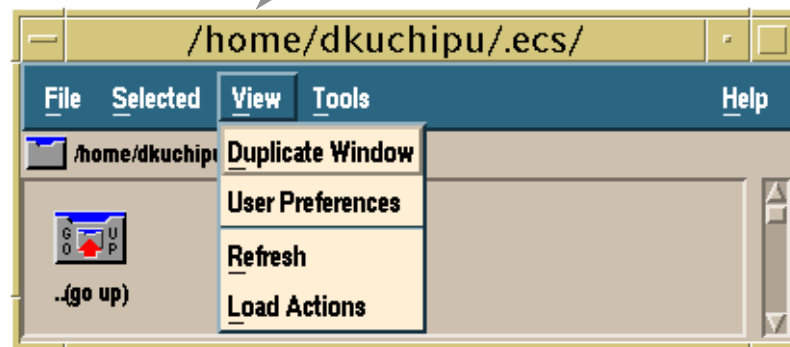


View Pulldown Menu

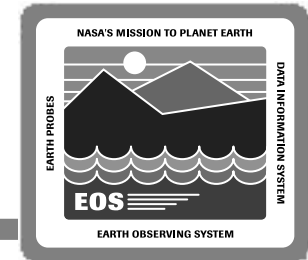


- View pulldown menu consists of options which are specific to desktop window and which control the layout of the icons.
- Desktop window can be displayed in either Rows and Columns (Iconic) format or tree (Hierarchical) format.

Click on "View"
Pulldown menu or
type <ALT>-V on the
keyboard.

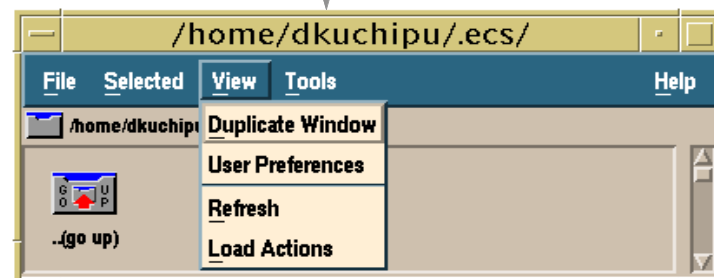


Duplicate Window

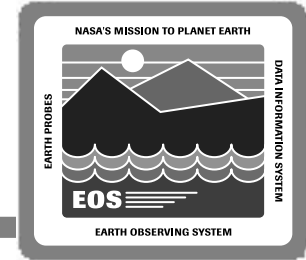


- A duplicate desktop window can be used as a regular window, i.e. user can traverse between directories in this window also.

Click on “View”
Pulldown menu and
select “Duplicate
Window”

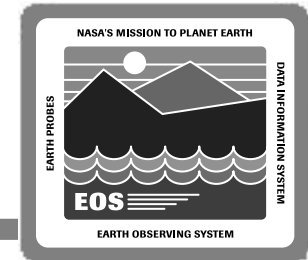


User Preferences

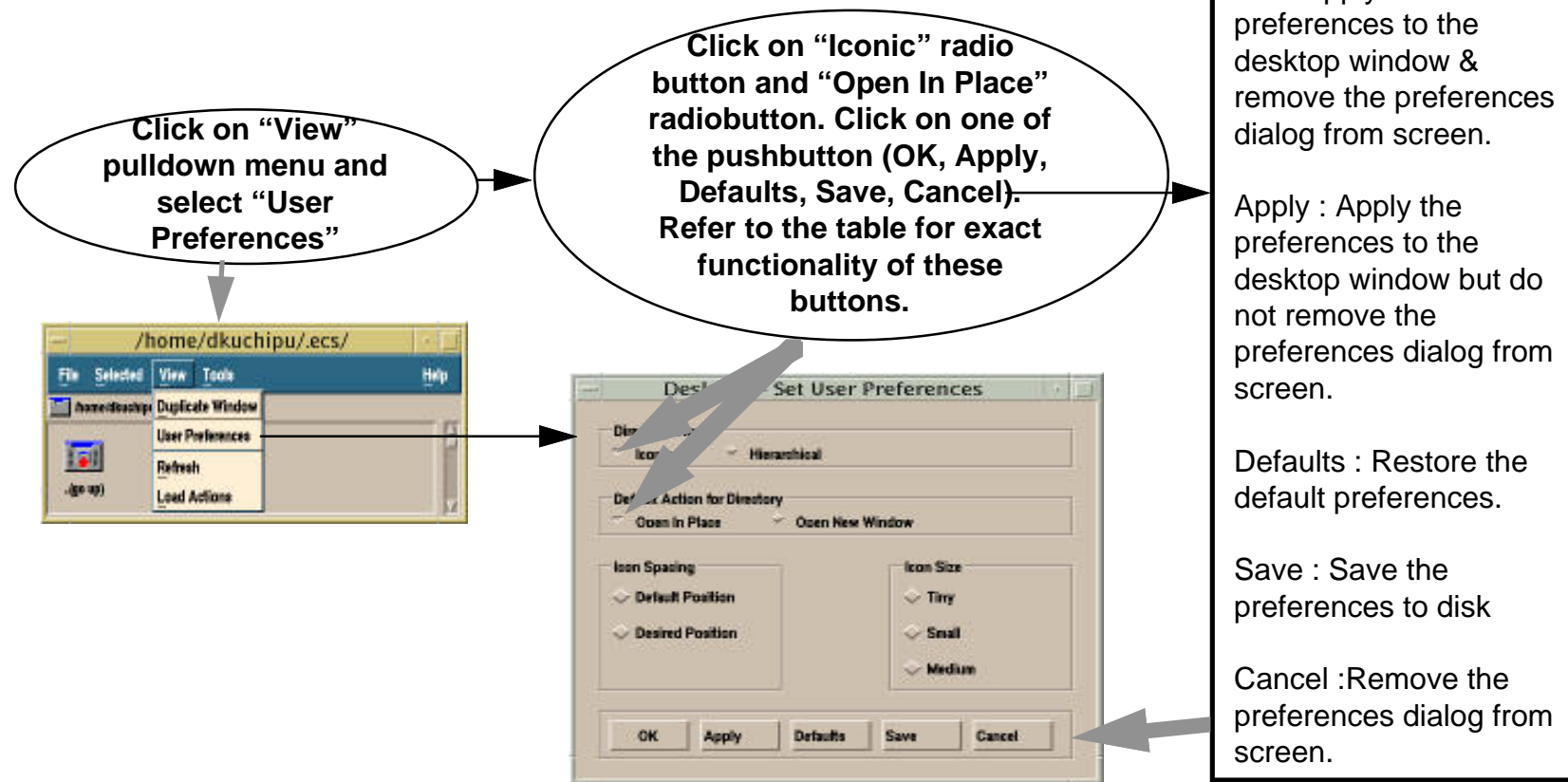


- **Users can customize desktop window. They can set these options :**
 - **Directory view**
 - **Iconic** : Iconic view displays desktop objects in the current directory in row and columns format.
 - **Hierarchical** : Hierarchical view allows the users to view the directory contents in tree format. It also displays date and size of the object.
 - **Default action for Directory** : As directories have more than one actions associated with them, user will have the ability to set their preference for selecting the default action. The options are:
 - **Open In Place** : Opens the directory and displays the contents in the same desktop window.
 - **Open New Window** : Opens the directory and displays the contents in a new desktop window.

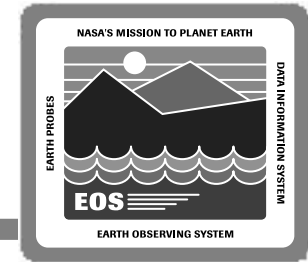
User Preferences



- The following method should be used for setting the preferences:
 - For e.g. Set the preferences to Directory View: Iconic & Default Action for Directories: Open In Place.

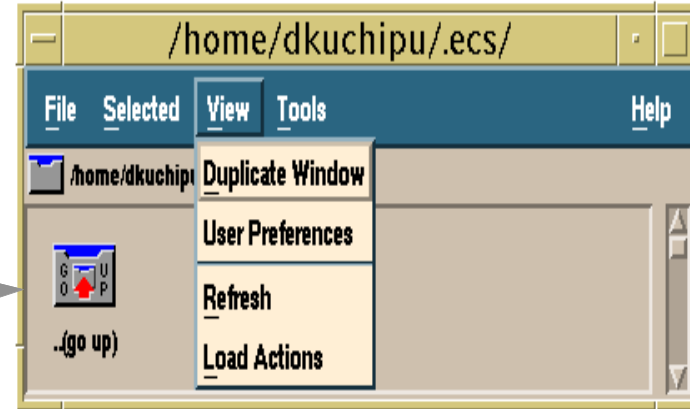


Refresh

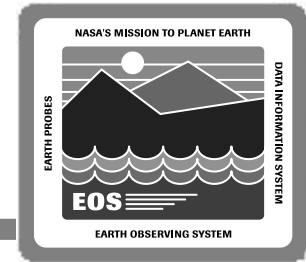


- Refresh option can be used :
 - To re-read the directory contents.
 - To refresh the display.

**Click on “View”
pulldown menu
and select
“Refresh” for
refreshing desktop
window.**



Load Actions

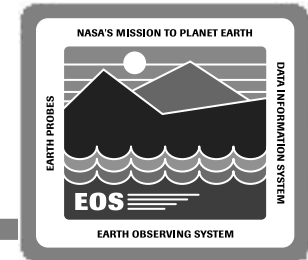


- **Load Actions** : Each user will have a file in their account which contains the following information about the application & document objects:
 - Name or type of object. For ex. EOSView or *.hdf
 - Icon to be used.
 - Command to execute for performing actions.
 - Associated actions.
- Desktop reads this information at startup and keeps in actions database.
- User should use this option whenever actions file is updated.



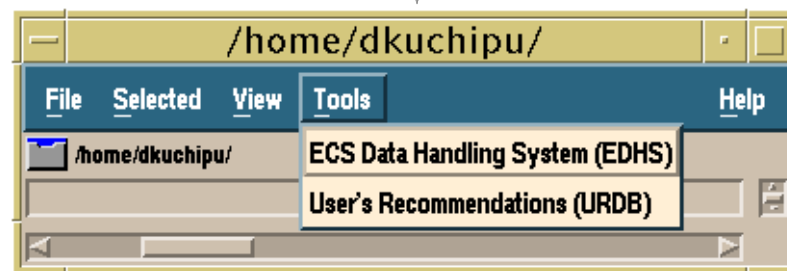
Click on "View"
pulldown menu
and select "Load
Actions" for
updating the
actions database.

Tools Pulldown Menu

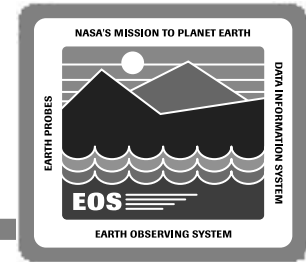


- Tools pulldown menu consists of common tools used by ECS user.
- For ex. To invoke EDHS, use the following method:

Click on "Tools" pulldown menu, select "ECS Data Handling System (EDHS)"



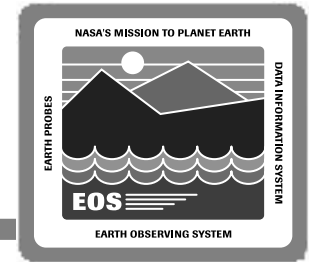
Other features



These features will be implemented in REL-A :

- **Ability to copy files**
 - through menu shell
 - using drag and modifier key
- **Ability to move files**
 - through menu shell
- **Ability to specify desired icon size**
 - tiny, small, medium, large
- **Message area for displaying various errors, warnings and other messages.**

Other features



- **Common default color scheme.**
- **Specify fonts through Xdefaults file.**
- **Help**
 - **Html**
 - **Motif**
- **Error Handling**
- **The following choice will be included in User's preferences:**
 - **Iconic format**
 - **Ability to move files to a desired position.**